

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A Measuring measuring device with having a Hall sensor, ~~particularly~~ for displacement measurements, ~~characterized in that~~ wherein the Hall sensor (5) is disposed centrally and in an axially movable manner in a magnetic tube (2), each half of said magnetic tube (2) being cross-magnetized with opposite polarity.

2. (Currently Amended) The Measuring measuring device according to Claim 1, ~~characterized in that~~ wherein the Hall sensor (5) is held in a support in an axially displaceable manner, said support preventing ~~the~~ a rotational movement of the Hall sensor (5) relative to the magnetic tube (2).

3. (Currently Amended) A Method method for fabricating a magnetic tube for the measuring device according to Claim 1 ~~or 2~~, ~~characterized in that~~ wherein a tube (2) made of a magnetizable material is cross-magnetized in a diametrically opposite manner so that one half (6) of the tube (2) is magnetized as ~~the~~ a magnetic north pole (3) and the other half (7) of the tube (2) as ~~the~~ a magnetic south pole (4), and that in the opposite direction ~~the~~ another half (7) of the tube (2) is provided with a magnetic north pole (3) and a magnetic south pole (4).

4. (Currently Amended) A Method method for fabricating a magnetic tube for the measuring device according to Claim 1 or 2, ~~characterized in that~~ comprising:
through-magnetizing a tube (2) made of magnetizable material ~~is through-~~
~~magnetized in the~~ a direction of its axis so that one half (16) of the tube (2) is magnetized
as ~~the~~ a magnetic north pole (3) and ~~the~~ another half (7) of the tube (2) is magnetized as
~~the~~ a magnetic south pole (4); and
~~that then the tube (2) is severed~~ severing the tube in its center (13) crosswise to its
axis[[]]; and
rotating one part of the tube (6) or (7) ~~is rotated~~ 180° relative to the another part of
the tube.